

Loop Method:

Loop
MRD [addr],[reg]
DBcc Loop

Unrolled Method:

MRD [addr],[reg]

Fig. 1A
PRIOR ART

Fig. 1B
PRIOR ART

Load Count

REPEAT

MRD [addr],[reg]

Fig. 2

100

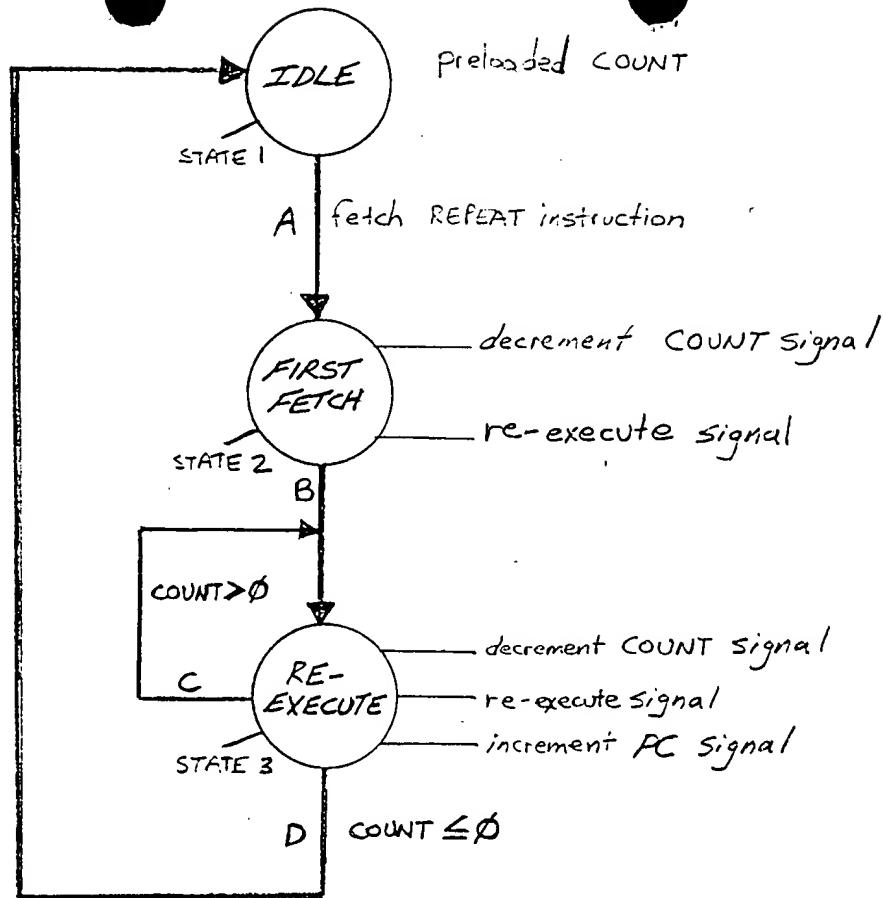


Fig. 3

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Fig. 4

<u>PROGRAM COUNTER (PC)</u>	<u>TRANSITION</u>	<u>OPERATION</u>
$\times 10$	A	fetch REPEAT instruction
$\times 11$	B	fetch instruction to be repeated ($INST_R$)
$\times 11$	C	execute $INST_R$
$\times 11$	C	execute $INST_R$
$\times 11$	C	execute $INST_R$
$\times 11$	C	execute $INST_R$
$\times 11$	C	execute $INST_R$
$\times 12$	D	fetch next instruction

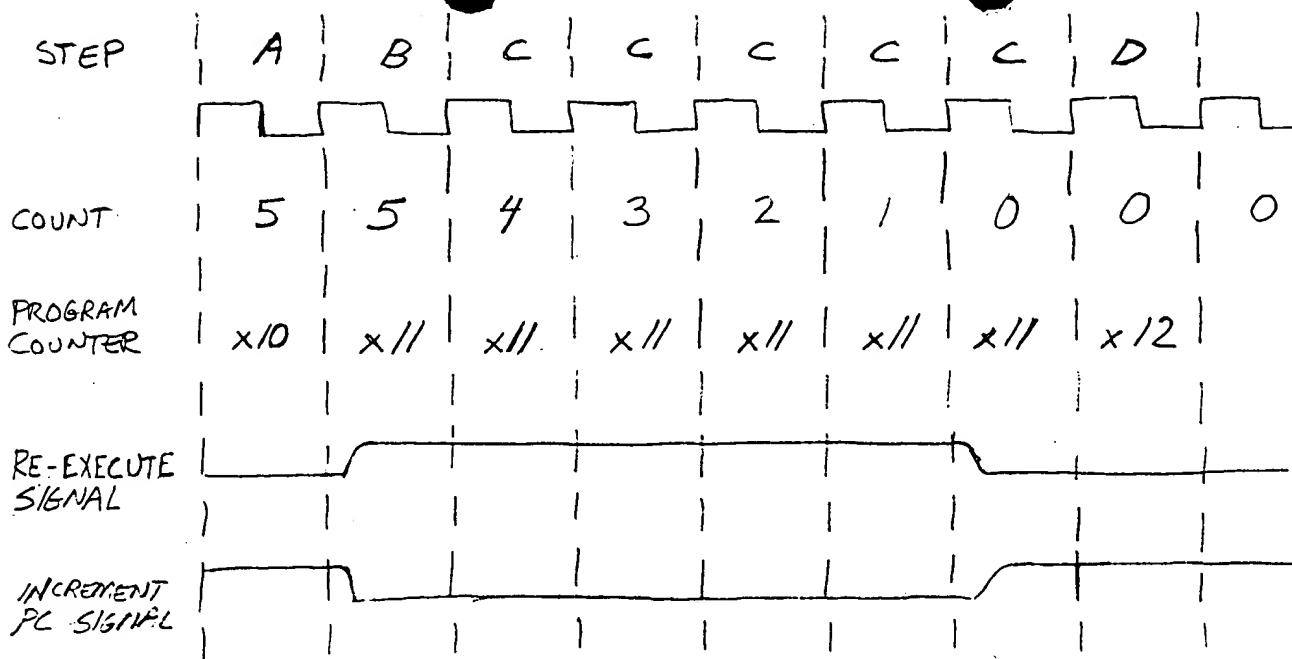


Fig. 5

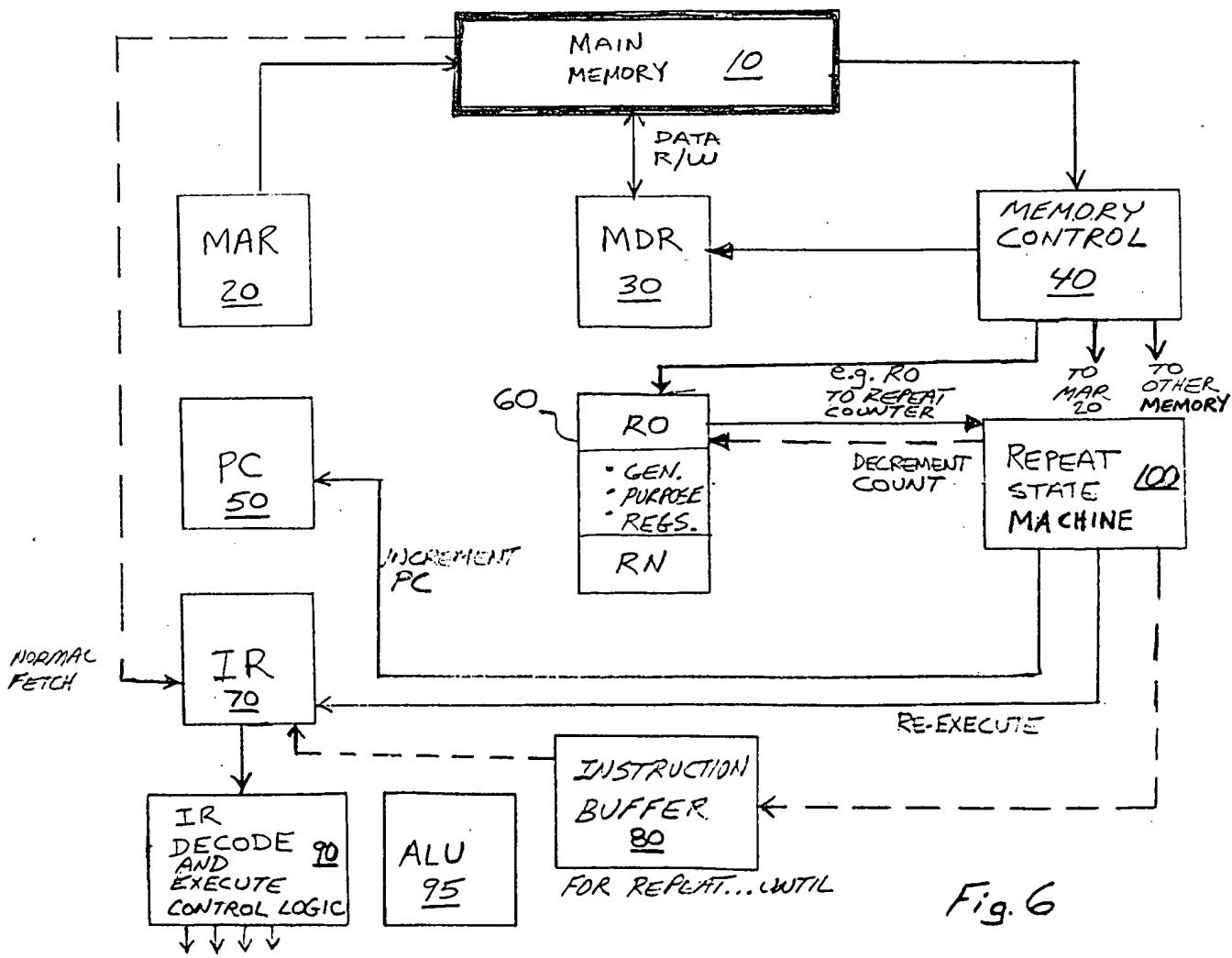


Fig. 6